

Title (en)
ORGANIC LIGHT EMITTING DIODE, DISPLAY PANEL AND DISPLAY APPARATUS HAVING THE SAME, AND FABRICATING METHOD THEREOF

Title (de)
ORGANISCHE LEUCHTDIODE, ANZEIGETAFEL UND ANZEIGEVORRICHTUNG DAMIT UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
DIODE ÉLECTROLUMINESCENTE ORGANIQUE, PANNEAU D'AFFICHAGE ET APPAREIL D'AFFICHAGE LE COMPRENANT, ET LEUR PROCÉDÉ DE FABRICATION

Publication
EP 3520153 A4 20200701 (EN)

Application
EP 16894812 A 20160930

Priority
CN 2016101076 W 20160930

Abstract (en)
[origin: WO2018058524A1] An organic light emitting diode includes a light emitting layer, a first electron transport layer including a first electron transport material on the light emitting layer, a hole scavenger layer including a hole scavenger material on a side of the first electron transport layer distal to the light emitting layer, and a second electron transport layer including a second electron transport material on a side of the hole scavenger layer distal to the first electron transport layer. The hole scavenger material includes a first light emitting material capable of converting excitons generated by excess holes in the first or second electron transport layer to a ground state through radiative decay.

IPC 8 full level
H01L 51/52 (2006.01); **H01L 51/56** (2006.01)

CPC (source: EP US)
H10K 50/11 (2023.02 - EP US); **H10K 50/12** (2023.02 - US); **H10K 50/131** (2023.02 - EP US); **H10K 50/166** (2023.02 - EP US); **H10K 50/171** (2023.02 - US); **H10K 50/19** (2023.02 - EP); **H10K 59/12** (2023.02 - US); **H10K 71/00** (2023.02 - US); **H10K 59/00** (2023.02 - EP); **H10K 2101/10** (2023.02 - EP US); **H10K 2101/30** (2023.02 - US); **H10K 2101/40** (2023.02 - EP US)

Citation (search report)

- [XII] EP 2503617 A2 20120926 - TOSHIBA KK [JP]
- [XI] US 2014131674 A1 20140515 - PARK JINHO [KR], et al
- [XI] US 2009226757 A1 20090910 - SONG JUNG BAE [KR], et al
- See also references of WO 2018058524A1

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DOCDB simple family (publication)
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DOCDB simple family (application)
CN 2016101076 W 20160930; CN 201680000978 A 20160930; EP 16894812 A 20160930; JP 2017550700 A 20160930; US 201615560745 A 20160930